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PROCESS AUTOMATION

Line automation can save a company money in many ways. Automation can decrease defects by increasing accuracy and repeatability. Automation can increase production through improved efficiency. It can mitigate repetitive task for safety and ergonomic concerns.

A NEW OUTLOOK

Have you been caught in a rut of “we’ve always done it this way?” Having an outside company to partner with can bring a fresh perspective to a process or design.

WORKLOAD DISTRIBUTION

If your workload tends to be cyclical, it can be hard to justify a full-time employee for the busy times, but hard to keep your current staff within reasonable working hours. Hiring a contract firm can help alleviate those stress points and even out the workload for existing staff.

CUSTOM CONTROL SOLUTIONS

CLIENT FOCUSED CONTRACT ENGINEERING

EDUCATION HIGHLIGHTS

Bachelor of Science in Electrical Engineering

University of Tennessee, Chattanooga, TN

Bachelor of Science in Mechanical Engineering

Tennessee Tech, Cookeville, TN (and others)

Associate in Industrial Electronics Technologies

Tri-County Technical College, Pendleton, SC (and others)

EXPERIENCE HIGHLIGHTS

Project Management & Integration

- Turnkey Project Services
- Installation Services
- Installation & Demo Packages
- Scope Development
- Startup & Commissioning Services
- Trade Contractor Interface

Electrical Engineering & Design

- Control & Motor Panel Design
- Control System Development
- Machine Safety Design
- Hardware Upgrades (Obsolescence)
- UL508A Panel Shop
- Power & Load Studies
- TUV Rheinland Functional Safety
- Control System Evaluation

Programming & Software

- Allen Bradley Automation
- Rockwell Recognized Systems Integrator
- Siemens Automation
- Fanuc Robotics
- Orchestra & Wonderware
- Cognex Machine Vision
- Cognex Certified Systems Integrator
- Modicon & Schneider Automation
- Collaborative Robotics (UR)
- ICONICS & Kepware

Mechanical Engineering & Design

- Industrial Process Design
- Equipment Sizing
- Fabrication Packages
- Industrial Ventilation
- Machine Design
- Instrumentation Specification
- Fabrication Sourcing

Drafting & Rendering

- SolidWorks (3D Modeling)
- AutoCAD (2D Design)
- Piping & Instrumentation (P&ID)
- NavisWorks (3D Scanning)
- AutoCAD Electrical
- Drawing Audits

Product Delivery & Packaging

- Packaging System Design
- Product Delivery & Metering
- OEM Purchasing
- Palletizing Systems
- Conveying Systems
- OEM Integration

Automation & Software

As a recognized Rockwell Automation and Cognex Vision System Integrator, CCS brings extensive expertise across multiple software platforms, including Schneider, Siemens, Aveva, and more. We have successfully integrated robotics into various processes, working with industry leaders such as Kuka, Fanuc, and Universal Robots.

Electrical Engineering

CCS offers comprehensive electrical engineering services, whether evaluating existing systems or developing new ones from the ground up. Our team specializes in designing control and motor panels, conducting load studies, and upgrading obsolete hardware. Additionally, we assist customers in assessing and mitigating safety hazards across all equipment.

Mechanical Engineering

Our experienced mechanical engineers and designers can take a process from raw materials, through processing, to final product. We provide process design, component development, project bid packages, installation oversight, and fabrication sourcing. Using 3D scanning and SolidWorks, we optimize layouts and create new process designs. We also offer virtual project walkthroughs for stakeholders and group presentations.

Packaging Engineering

CCS works with multiple equipment vendors to provide a tailored solution to any packaging need. We design product distribution, and layouts utilizing equipment such as flow wrappers, baggers, cartoning, case packers, palletizer and more.

UL508A Electrical Panel Shop

CCS is certified to build and list UL508A electrical panels. These panels are manufactured at our Cleveland, TN facility and shipped to customers for on-site installation.

3D Scanning

Accurate 3D scanning of buildings and equipment significantly improves project outcomes. Our scanning services provide detailed digital models, ensuring precision in planning and execution.

3D Printing & Engraving

We offer high-quality 3D printing to support prototyping and product development. Additionally, our fiber laser engraving services allow for precise marking on a wide range of materials, enhancing customization and identification needs.
